

In the specification

Please insert on page 1, between "File No.: 89710-2" and "REFERENCE TO MICROFICHE APPENDIX", the following paragraph:

12 --The present application is a continuation of pending application No. 08/987,346, filed on 12/09/97, entitled "Method And Architecture For Self-Provisioning a Rendezvous To Ensure Secure Access to Information In a Database From Multiple Devices", now allowed.--

In the claims

Please cancel claims 1-31 without prejudice.

Please add the following new claims (numbered 32-104):

32. A method for accessing data contained in a data network system, comprising:
 sending a request to a server hosting the data to retrieve the data by activating a key of a mobile device, the request being sent by executing a first set of program instructions in the mobile device, wherein the mobile device has a display screen and is in communication, over a wireless data network with the server, and further, wherein the data is associated with the mobile device and is also accessible by a computing device executing a second set of program instructions and coupled to the server through a data network;
 receiving the data from the server via the wireless data network, the data presented in a first format interpretable by the first set of program instructions; and
 displaying the data on the display screen of the mobile device.
33. The method of claim 32, wherein the data is presented in a second format when accessed by the computing device.
34. The method of claim 32, wherein the first format is a first markup language for use with a mobile wireless device operating in the wireless data network.

35. The method of claim 34, wherein the first markup language is Handheld Device Markup Language (HDML).

36. The method of claim 33, wherein the second format is a second markup language for use with a computing device operating in the data network.

37. The method of claim 36, wherein the second markup language is Hypertext Markup Language (HTML).

38. The method of claim 33, wherein the first format is used to display the data on the mobile device and the second format is used to display the data on the computing device.

39. The method of claim 32, wherein the first set of program instructions is included in a first browser program operated in the mobile device.

40. The method of claim 32, wherein the data comprises at least one of (i) an address book entry, (ii) a bookmark to a web site, and (iii) a link to a source of information, and is accessible from the computing device executing the second set of program instructions.

41. The method of claim 32, wherein the data comprises data for configuring or re-configuring a feature of the mobile device.

42. The method of claim 32, wherein the mobile device is a wireless telephone.

43. The method of claim 32, wherein the mobile device includes a processor, and further, wherein the processor controls a telephony function.

44. The method of claim 32, wherein the data comprises a plurality of selectable

hyperlinks, with each of the hyperlinks providing access to a resource in the data network, and further, wherein the displaying comprises displaying at least one of the selectable hyperlinks on the display screen of the mobile device using the first set of program instructions.

45. The method of claim 44, further comprising:

 sending a second request from the mobile device to the server by executing the first set of program instructions, the second request acting to fetch information associated with one of the hyperlinks.

46. The method of claim 32, wherein the request comprises an address identifier identifying the server.

47. The method of claim 46, wherein the address identifier is a universal resource locator (URL).

48. The method of claim 32, wherein the sending a request further comprises:

 determining whether a communication session between the mobile device and the server is in existence or is valid, wherein the determining of the communication session further comprises:

 creating the communication session between the mobile device and the server if the communication session is not in existence or is not valid;

 conducting mutual authentication between the mobile device and the server; and

 generating session credential information for the communication session, wherein a subsequent communication between the mobile device and the server is encrypted by the session credential information; and

 forwarding the session credential information to the server to access the data if the communication session is in existence or is valid.

49. A method for accessing data contained in a data network system, comprising:
receiving a request from a mobile device through a wireless data network to access the data, the data being associated with an account for the mobile device and the mobile device having a display screen, wherein the data is accessible by a computing device remotely located and coupled to a data network selected from a group consisting of the Internet, a private network and a network of public and private networks;

retrieving the data after the request is authenticated with respect to the account; and

forwarding the data to the mobile device in a first format displayable on the display screen of the mobile device.

50. The method of claim 49, further comprising:

prompting the computing device for credential information when the computing device attempts to access the data; and

providing access to the data in a second format after the credential information is verified.

51. The method of claim 50, further comprising:

updating the data upon receiving updated information from the computing device.

52. The method of claim 49, wherein the first format is used to display the data on the mobile device and the second format is used to display the data on the computing device.

53. The method of claim 52, wherein the first format is a first markup language and the second format is a second markup language.

54. The method of claim 49, wherein the data comprises a plurality of hyperlinks, and further, wherein the retrieving further comprises:

contacting a resource identified by the one of the hyperlinks over the data network;

fetching the data in a second format from the resource; and

converting the fetched data to the first format.

55. The method of claim 54, wherein the first format is a first markup and the second format is a second markup language.

56. The method of claim 49, wherein the data comprises data for configuring or re-configuring a feature of the mobile device.

57. The method of claim 49, wherein the mobile device is a wireless telephone.

58. The method of claim 49, wherein the mobile device includes a processor, and further, wherein the processor controls a telephony function.

59. The method of claim 49, wherein the request includes an update to the data and causes the data to be updated.

60. A wireless mobile device for accessing data in a data network system, comprising:

a display screen;

a memory containing program code for a first browser program; and

a processor, coupled to the display screen and the memory, and capable of executing the program code to enable the first browser to perform the operations of

sending a request over a wireless data network to a server hosting the data to retrieve the data after activation of a key of the mobile device, the data being associated with the mobile device and accessible by a

computing device executing a second browser and coupled to the server through a data network;
receiving the data from the server via the wireless data network, the data presented in a first format interpretable by the first browser; and displaying the data on the display screen of the mobile device.

61. The device of claim 60, wherein the data is presented in a second format when accessed by the computing device.

62. The device of claim 60, wherein the first format is a first markup language.

63. The device of claim 62, wherein the first markup language is Handheld Device Markup Language (HDML).

64. The device of claim 61, wherein the second format is a second markup language.

65. The device of claim 64, wherein the second markup language is Hypertext Markup Language (HTML).

66. The device of claim 61, wherein the first format is used to display the data on the mobile device and the second format is used to display the data on the computing device.

67. The device of claim 60, wherein the data comprises at least one of (i) an address book entry, (ii) a bookmark to a web site, and (iii) a link to a source of information, and is accessible from the computing device executing the second set of program instructions.

68. The device of claim 60, wherein the data comprises a plurality of selectable hyperlinks, with each of the hyperlinks providing access to a resource in the data

network, and further, wherein the displaying comprises displaying at least one of the selectable hyperlinks on the display screen of the mobile device.

69. The device of claim 68, wherein the first browser further performs the operations of:

 sending a second request from the mobile device to the server by executing the program code, the second request acting to fetch information associated with one of the hyperlinks.

70. The device of claim 60, wherein the request comprises an address identifier identifying the server.

71. The device of claim 70, wherein the address identifier is a universal resource locator (URL).

72. The device of claim 60, wherein the sending a request further comprises:

 determining whether a communication session between the mobile device and the server is in existence or is valid, wherein the determining of the communication session further comprises:

 creating the communication session between the mobile device and the server if the communication session is not in existence or is not valid;
 conducting mutual authentication between the mobile device and the server; and

 generating session credential information for the communication session, wherein a subsequent communication between the mobile device and the server is encrypted by the session credential information; and
 forwarding user credential information to the server to access the data if the communication session is in existence or is valid.

73. The device of claim 60, wherein the data comprises data for configuring or re-configuring a feature of the device.

74. The device of claim 60, wherein the device is a wireless telephone.

75. The device of claim 60, wherein the processor of the device also controls a telephony function.

76. An apparatus for accessing data contained in a data network system, comprising:

a memory containing program code for a server module;
a processor, coupled to the memory, and capable of executing the program code to enable the server module to perform the operations of
hosting the data, the data associated with an account for a mobile device, the device having a display screen, and the data being accessible by a computing device remotely located and coupled to a data network selected from a group consisting of the Internet, a private network and a network of private and public networks;
receiving a request from the mobile device through a wireless data network to access the data;
retrieving the data after the request is authenticated with respect to the account; and
forwarding the data to the mobile device in a first format displayable on the display screen of the mobile device.

77. The apparatus of claim 76, wherein the processor further enables the server module to perform the operations of

prompting the computing device for credential information when the computing device accesses the data;
providing access to the data in a second format after the credential information is verified; and
updating the data upon receiving updated information from the computing device.

78. The apparatus of claim 76, wherein the data is presented to the computing device in a second format, and further, wherein the first format is a first markup language and the second format is a second markup language.

79. The apparatus of claim 78, wherein the first format is used to display the data on the mobile device and the second format is used to display the data on the computing device.

80. The apparatus of claim 76, wherein the data comprises a plurality of hyperlinks, and further, wherein the retrieving further comprises:
contacting a resource identified by the one of the hyperlinks over the data network;
fetching the data in a second format from the resource; and
converting the fetched data to the first format.

81. The apparatus of claim 76, wherein the data comprises data for configuring or re-configuring a feature of the mobile device.

82. The apparatus of claim 76, wherein the mobile device is a wireless telephone.

83. The apparatus of claim 76, wherein the mobile device includes a processor, and further, wherein the processor controls a telephony function.

84. A computer readable medium encoded with computer program code executable in a mobile device having a display screen, for accessing data contained in a data network system, comprising:
program code for sending a request over a wireless data network to a server hosting the data, the data being associated with the mobile device and accessible by a computing device coupled to the server through a data network;

program code for receiving the data from the server via the wireless data network, the data received presented in a first format displayable by the mobile device and presented in a second format when accessed by the computing device; and
program code for displaying the data on the display screen of the mobile device.

85. The computer readable medium of claim 84, wherein the first format is a first markup language.
86. The computer readable medium of claim 85, wherein the first markup language is Handheld Device Markup Language (HDML).
87. The computer readable medium of claim 84 wherein the second format is a second markup language.
88. The computer readable medium of claim 87, wherein the second markup language is Hypertext Markup Language (HTML).
89. The computer readable medium of claim 84, wherein the first format is used to display the data on the mobile device and the second format is used to display the data on the computing device.
90. The computer readable medium of claim 84, wherein the data comprises at least one of (i) an address book entry, (ii) a bookmark to a web site, and (iii) a link to a source of information.
91. The computer readable medium of claim 84, wherein the data comprises a plurality of selectable hyperlinks, with each of the hyperlinks providing access to a resource in the data network, and further, wherein the displaying comprises

displaying at least one of the selectable hyperlinks on the display screen of the mobile device.

92. The computer readable medium of claim 91, further comprising program code for sending a second request from the mobile device to the server to fetch information associated with one of the hyperlinks.

93. The computer readable medium of claim 84, wherein the request comprises an address identifier identifying the server.

94. The computer readable medium of claim 93, wherein the address identifier is a universal resource locator (URL).

95. The computer readable medium of claim 84, wherein the program code for sending a request further comprises

program code for determining whether a communication session between the mobile device and the server exists or is valid, wherein the program code for determining a communication session further comprises

program code for creating the communication session between the

mobile device and the server if the communication session is not in existence or is not valid;

program code for conducting mutual authentication between the mobile device and the server; and

program code for generating session credential information for the

communication session, wherein a subsequent communication

between the mobile device and server is encrypted by the session credential information; and

forwarding the credential information to the server to access the data if the communication session is in existence or is valid.

96. The computer readable medium of claim 84, wherein the data comprises data for configuring or re-configuring a feature of the mobile device.

97. The computer readable medium of claim 84, wherein the mobile device is a wireless telephone.

98. The computer readable medium of claim 84, wherein the mobile device includes a processor, and further, wherein the processor controls a telephony function.

99. A computer readable medium encoded with computer program code executable in a server hosting data, the data accessible by a mobile device executing a first browser and by a computing device executing a second browser, wherein the mobile device is coupled to the server through a wireless network and the computing device is coupled to the server through a data network, comprising:
program code for receiving a request from the mobile device through the wireless network to access the data;
program code for retrieving the data;
program code for forwarding the data to the mobile device in a first format displayable on the display screen of the mobile device.

100. The computer readable medium of claim 99, further comprising:
program code for prompting the computing device for credential information when the computing device attempts to access the data;
program code for providing access to the data in a second format after the credential information is verified; and
program code for updating the data upon receiving updated information from the computing device.

101. The computer readable medium of claim 100, wherein the first format is used to display the data on the mobile device and the second format is used to display the data on the computing device.